

IN THE CLAIMS:

The text of all pending claims, (including withdrawn claims) is set forth below. Canceled and not entered claims are indicated with claim number and status only. The claims as listed below show added text with underlining and deleted text with ~~strikethrough~~. The status of each claim is indicated with one of (original), (currently amended), (canceled), (withdrawn), (new), (previously presented), or (not entered).

Please AMEND claims 1-2, 5-6, 9-11, 13, and 15 in accordance with the following:

1. (currently amended) An information processing apparatus comprising:
 - a first storage unit;
 - a processor configured to execute a program written in the first storage unit;
 - a second storage unit configured to store a plurality of encrypted program segments into which the program is divided; and
 - a secure module capable of performing operations of:
 - receiving each of the encrypted program segments stored in the second storage unit;
 - returning each of the received encrypted program segments to an executable state;
 - writing each of the encrypted program segments, which have each been returned to the executable state, in the first storage unit in a sequence for the processor to execute; and
 - deleting each of the returned encrypted program segments, which have each been executed by the processor, from the first storage unit after execution is completed,
 - wherein the processor transmits the encrypted program segments stored in the second storage unit to the secure module.
2. (currently amended) The information processing apparatus according to claim 1, wherein the secure module includes a processor configured to judge whether or not an execution request signal for a divided program has been received and to return each of the received encrypted program segments to the executable state when it is judged that the execution request signal has been received.
3. (previously presented) The information processing apparatus according to claim 2,

wherein the processor is further configured to store information for identifying each divided program and to judge whether each divided program is a program that is to be kept resident in the first storage unit before program execution or a program that is not to be written in a memory before execution.

4. (previously presented) The information processing apparatus according to claim 1, wherein the secure module includes a processor that is configured to store information for identifying each divided program and to judge whether said divided program is a program that is to be kept resident in the first storage unit before program execution or a program that is not to be written in a memory before execution.

5. (currently amended) An information processing apparatus comprising:

- a first storage unit;
- a processor configured to execute a program written in the first storage unit;
- a second storage unit configured to store a plurality of encrypted program segments into which the program is divided and rewrites itself with invalid code just before the program is completed; and
- a secure module capable of performing operations of:
 - receiving each of the encrypted program segments stored in the second storage unit;
 - returning each of the received encrypted program segments to an executable state;
 - writing each of the encrypted program segments, which have each been returned to the executable state, in the first storage unit in a sequence for the processor to execute; and
 - deleting each of the returned encrypted program segments, which have each been executed by the processor, from the first storage unit after execution is completed,

wherein the processor transmits the encrypted program segments stored in the second storage unit to the secure module.

6. (currently amended) The information processing apparatus according to claim 5, wherein the secure module includes a processor configured to judge whether or not an execution request signal for a divided program has been received and to return each of the received encrypted program segments to the executable state when it is judged that the

execution request signal has been received.

7. (previously presented) The information processing apparatus according to claim 6, wherein the processor is further configured to store information for identifying each divided program and to judge whether each divided program is a program that is to be kept resident in the first storage unit before program execution or a program that is not to be written in a memory before execution.

8. (previously presented) The information processing apparatus according to claim 5, wherein the secure module includes a processor that is configured to store information for identifying each divided program and to judge whether said divided program is a program that is to be kept resident in the first storage unit before program execution or a program that is not to be written in a memory before execution.

9. (currently amended) An information processing apparatus comprising:
a first storage unit;
a processor configured to execute a program written in the first storage unit;
a second storage unit configured to store an encrypted program; and
a secure module capable of performing operations of:
 receiving the encrypted program stored in the second storage unit;
 dividing the received encrypted program into a plurality of encrypted programs segments;
 returning each of the encrypted program segments to an executable state;
 writing each of the encrypted program segments, which have been returned to the executable state, in the first storage unit in a sequence for the processor to execute;
and
 deleting each of the returned encrypted program segments, which have been executed by the processor, from the first storage unit after execution is completed,
 wherein the processor transmits the program stored in the second storage unit to the secure module.

10. (currently amended) The information processing apparatus according to claim 9, wherein
the second storage unit is further configured to store information on division of a program

correspondingly to the stored program, and

the secure module divides the received program into a plurality of encrypted program segments based on the information on division of the program.

11. (currently amended) An information processing apparatus comprising:

a first storage unit;

a processor configured to execute a program written in the first storage unit;

a second storage unit configured to store an encrypted program; and

a secure module cable of performing operations of:

receiving the encrypted program stored in the second storage unit;

dividing the received encrypted program into a plurality of encrypted program segments and making each of the plurality of encrypted program segments to be a program that rewrites itself with an invalid code just before the program is completed;

returning each of the encrypted program segments to an executable state; and

writing each of the encrypted program segments, which have been returned to the executable state, in the first storage unit in a sequence for the processor to execute,

wherein the processor transmits the program stored in the second storage unit to the secure module.

12. (previously presented) The information processing apparatus according to claim 11, wherein

the second storage unit is further configured to store information on division of a program correspondingly to the stored program, and

the secure module divides the received program into a plurality of programs based on the information on division of the program.

13. (currently amended) An information processing apparatus comprising:

a first storage unit where a plurality of encrypted program segments, into which an encrypted program has been divided, are kept resident before execution;

a processor configured to execute each of the encrypted program segments written in the first storage unit;

a second storage unit configured to store an encrypted call program that calls the encrypted program segments as an execution program; and

a secure module capable of performing operations of:

receiving the call program stored in the second storage unit;
returning the received call program to an executable state;
writing the call program, which has been returned to a corresponding executable state, in the first storage unit in a sequence for the processor to execute a divided program; and
deleting the returned call program, which has been executed by the processor, from the first storage unit after execution is completed,
wherein the second storage unit transmits the call program stored in the second storage unit to the secure module.

14. (previously presented) The information processing apparatus according to claim 13, wherein

the first storage unit further stores link information that is information to specify a call relationship between the program segments, and

the secure module detects a sequence to execute the program segments based on the link information.

15. (currently amended) An information processing apparatus comprising:
a first storage unit where a plurality of encrypted program segments, into which an encrypted program has been divided, are kept resident before execution;

a processor configured to execute the encrypted program segments written in the first storage unit;

a second storage unit configured to store an encrypted call program, which calls the encrypted program segments just before each program is completed as each execution program that rewrites itself with invalid code; and

a secure module capable of performing operations of:

receiving the call program stored in the second storage unit;

returning the received call program to an executable state; and

writing the call program, which has been returned to the corresponding executable state, in the first storage unit in a sequence for the processor to execute program segments;

wherein the second storage unit transmits the call program stored in the second storage unit to the secure module.

16. (previously presented) The information processing apparatus according to claim 15, wherein

the first storage unit further stores link information that is information to specify a call relationship between the program segments, and

the secure module detects a sequence to execute the program segments based on the link information.

17. (cancelled)